CRAFCO, INC.

Cheryl Jones – Area Manager



CONCRETE JOINT SEALANTS

-Jet Fuel Resistant

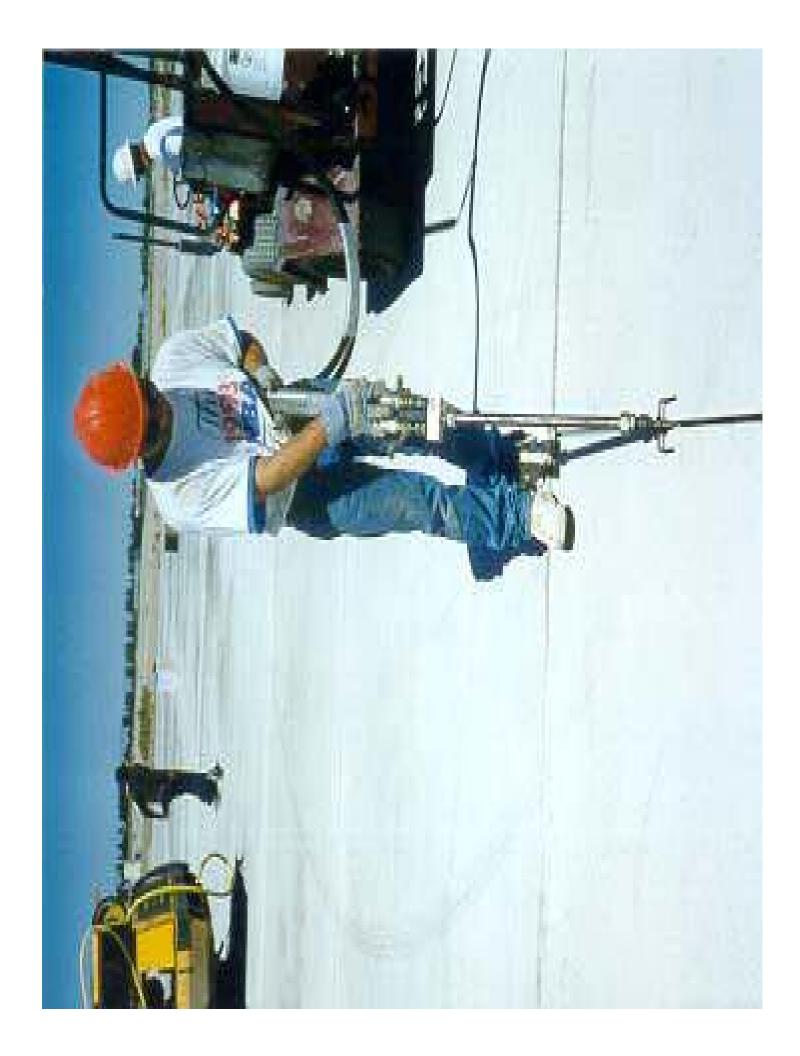
Petroleum Based

Formed In Place Joint Sealants

JET FUEL RESISTANT (JFR) COLD APPLIED

- SS-S-200E (H/M)
- Polysulfide Modified Coal Tar Composition
- Two Component
- 1 to 1 Mix Ratio
- Jet Fuel/Jet Blast Resistant
- Concrete Only
- Recess min. 1/8"

- 5-7 Year Life
- Excellent UV
 Resistance
- Low Temperature
 Bond Capabilities at
 -20°F
- Specialized Equip.
- More Resilient





JET FUEL RESISTANT (JFR) SEALANTS-HOT APPLIED

SS-S-1614A – Federal Specification

• ASTM D-3569

• LOW-MOD (Exceeds ASTM D-3569 and SS-S-1614A)

JET FUEL RESISTANT (JFR) SEALANTS-HOT APPLIED (ASTM and SS-S)

- Concrete Pavements
- Joints or Cracks
- Jet Fuel Resistant
- UV Resistance
- 3-5 Year Life
- Recess min. 1/8"
- 0°F Bond

- 220°F Softening Point
- Moderate to Hot Climates
- Double Boiler Melter

SS-S-1614A

ASTM D-3569

- Does Not Meet ASTM
 D 3569
- Requires More Testing Than SS-S-1614A
- Meets SS-S- 1614A
- Both 1614A and 3569 have the same performance capabilities

LOW MOD JFR

- Low Modulus Joint Sealant
- Reduces Spalling
- Jet Fuel Resistant Sealant
- Excellent Long Term Characteristics-10 + years
 *Fairchild AFB 10 Year Test Section
- Improved Low Temperature Characteristics Over Other Fuel Resistant Joint Sealants
- Improved Aging Characteristics

Low Mod JFR Cont'd

- Proven History
 - *Pittsburg International Airport
 - *Fairchild AFB
 - *Six Airports in Canada
 - *Ten Airports in Europe

PETROLEUM BASED HOT APPLIED SEALANTS

CRACK/JOINT FILLING

- Placement of material in cracks to reduce infiltration of water and reinforce pavement
- Applicable only on non-working cracks
 - -Longitudinal reflective cracks/joint
 - -Longitudinal cracks/joints
 - -Widely-spaced block cracks
- Requires little preparation of crack

CRACK/JOINT SEALING

- Placement of specialized (elastic)
 materials into cracks to reduce
 infiltration
- Addresses working cracks
- -Reflective cracks
 - -Thermal cracks
 - -Working longitudinal
- Requires preparation of crack

ASTM-D 6690-01

- Type I Moderate Climates (-18°C)
 Formerly ASTM D-1190
- Type II Most Climates (-29°C)
 Formerly ASTM D-3405
- Type III Most Climates (-29°C)
 Formerly SS-S-1401C
- Type IV Very Cold Climates (-29°C)

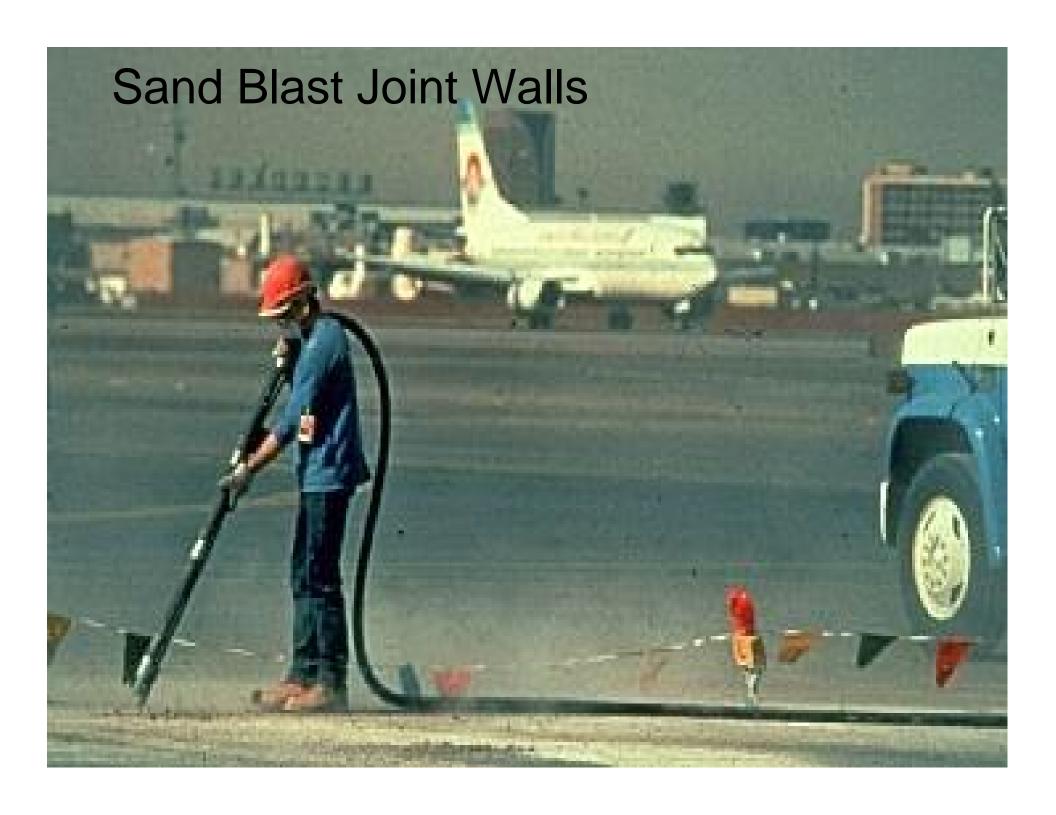
PETROLEUM BASED SEALANTS

- Variety of Sealants
- Climatic Conditions
- Joint/Crack Width
- Joint/Crack
 Movements
- AC/PC
- Recess, Flush Fill or Overband

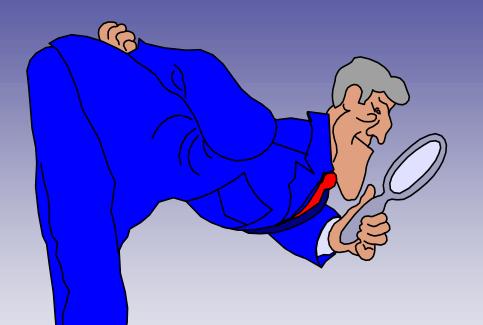
Double Boiler Melter







REMEMBER!!!!!!

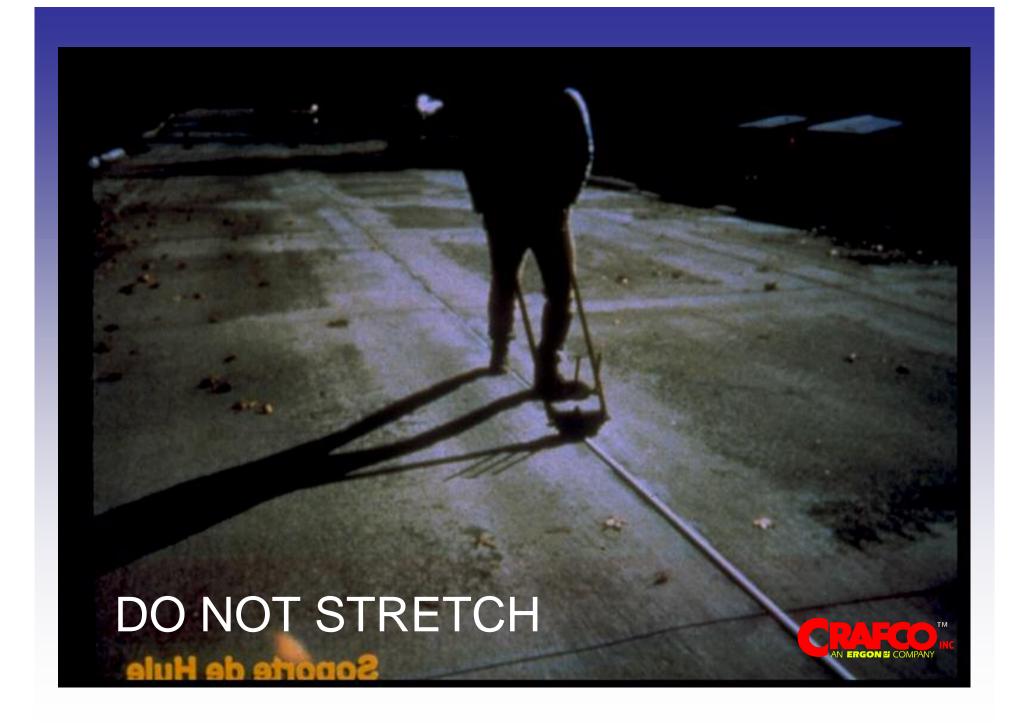


CLEAN

DRY!

Scientific Cleanliness Test





BACKER ROD

- Closed Cell, Polyethylene Foam
- ASTM D 5249
- Non Water Absorbent
- Heat Resistant when using hot applied sealants
- 25% Larger than Joint Width

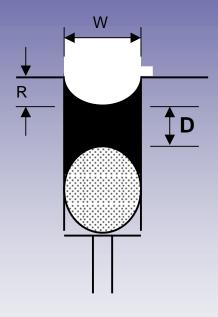
JOINT PREPARATION

- Saw joints to required width
- Flush Joints with Water-allow to dry
- Sand Blast Both Joint Walls two passes
- Clean using Compressed Air
- Install Backer Rod-do not stretch or puncture
- Scientific Finger Test
- Other Cleaning Methods

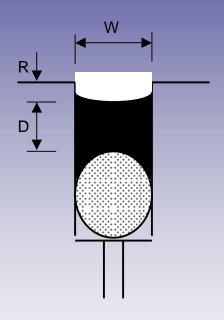
Proper Joint Configuration

PORTLAND CONCRETE PAVEMENTS

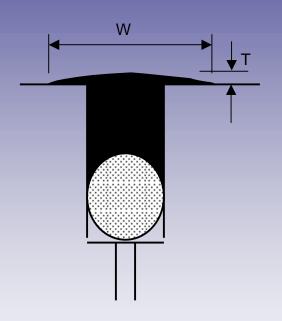
1. SILICONE



2. FUEL RESISTANT HOT-APPLIED



3. MODIFIED HOT-APPLIED



PCC Pavements

Product

Application Use

Fuel Resistant

Superseal LM-

Aprons, Runways/Taxiways

Yes

• Superseal -

Aprons, Runways/Taxiways

Yes

PCC Pavements cont'd

•	<u>Product</u>	Application Use	<u>Fuel</u>	Resistant
•	200E - Hot Pour-	Aprons, Runways/Taxiv Streets,	vays	Yes/Blast
•		Runways/Taxiways, AC/PCCP		No
•	TechCrete-	Partial depth Highways, Runways,		Interm.
•	Silicone-	Taxiways, Aprons Aprons, Runways, Taxiways, Streets		Interm.

TechCrete PCCP Spall Repair Material

WHAT IS TECHCRETE

- A Permanent Concrete Repair System
- Permanently Flexible
- Excellent Adhesion Properties
- Can be Trafficked within 1 hour

The Problem

- Large Joints/Cracks
- Failed Thin Bond Repairs
- Failure on Slabs on Single & Multi Corners
- Manhole & Drainage Areas

PREPARATION AND INSTALLATION

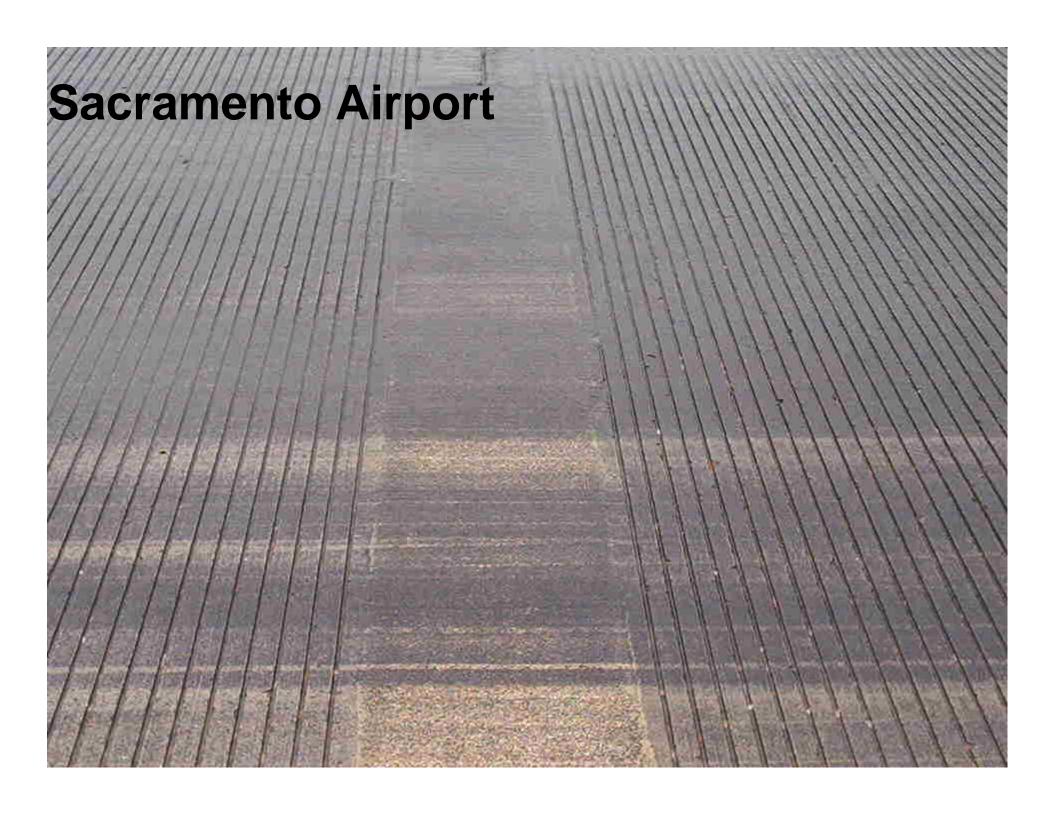












IN CONCLUSION

- Cold and Hot Applied Sealants
- Different Spec.
- Petroleum Based
 Sealants
- Crack/Joint Sealing
- Crack/Joint Filling
- Preparation

- Proper Joint Configuration
- Where to use the Different Sealants
- TechCrete as a Joint Repair

QUESTIONS

???????????????????????